

Government of Manipur
Office of the Principal Chief Conservator of Forests
(Climate Change & FCA)
Sanjenthong, Imphal

No. 7/315/2022/Forests: 142
To

Imphal, the 23rd February, 2023

✓ The AE (CIV)
84 RCC/25 BRTF

Sub:- Proposal for diversion of 55.5904 ha of forest land for Widening/improvement of existing road Chakpikarong -Sajik -Aigejang -Khongtal (19.5 KM to 41.657 KM) to NHSL Specifications in the State of Manipur by 84 RCC (GREF).

Ref: F.No. 3-MN C 054/2022-SHI/2937-38 dt. 18.01.2023.

Sir,

I am to say that the Central Government vide letter F.No. 3-MN C 054/2022-SHI/2937-38 dt. 18.01.2023 (copy enclosed) accorded “**In- Principle/Stage-I Approval**” for diversion of 55.5904 ha of forest land for Widening/improvement of existing road Chakpikarong -Sajik -Aigejang -Khongtal (19.5 KM to 41.657 KM) to NHSL Specifications in the State of Manipur by 84 RCC (GREF) subject to the fulfilment of the stipulated conditions in the letter dated 18.01.2023. Mode of compliances for these conditions will be as under:-

A. Conditions which need to be complied prior to handing over of forest land by the State Forest Department.

Para No	Stipulated Conditions	Mode of Compliance
1	The user agency shall transfer, the Net Present Value (NPV) of the forest land being diverted under this proposal, as per the Ministry's Guideline No.5-3/2011-FC (Vol.1)dated 06.01.2022 and even No. dated 19.01.2022.The requisite funds shall be transferred through online portal into CAMPA account of the State concerned;	The User Agency has to transfer ₹ 6,51,02,940/- (Rupees Six Crore Fifty One Lakh Two Thousand Nine Hundred Forty) only as cost of Net Present Value (NPV) of the forest land diverted under this proposal into CAMPA account of the State concerned through online portal (http://parivesh.nic.in).
2	The user agency shall transfer the cost of raising and maintaining the compensatory afforestation at the current wage rate in consultation with State Forest Department in the account of CAMPA of the concerned State through online portal. The scheme may include appropriate for anticipated cost increase for works scheduled for subsequent years;	The User Agency has to transfer ₹ 1,41,27,800 (Rupees One Crore Forty-One Lakh Twenty Seven Thousand and Eight Hundred) only as cost of raising and maintaining the Compensatory Afforestation into CAMPA account of the State concerned through online portal (http://parivesh.nic.in).
3	The user agency shall transfer the cost of raising Avenue plantation on the road side in the account of CAMPA of the concerned State only through e-portal;	The User Agency to transfer the cost of raising Avenue plantation on the road side into CAMPA account of the State concerned through online portal (http://parivesh.nic.in).

4	All the funds received from the user agency under the project shall be transferred/deposited to CAMPA account only through e-portal(https://parivesh.nic.in). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance;	The User Agency to transfer the above funds to CAMPA account only through e-portal (https://parivesh.nic.in). Amount deposited through other mode will not be accepted as compliance of the Stage-I clearance.
5	The cost of felling of trees shall be deposited by the User Agency with the State Forest Department;	The User Agency to deposit the cost of felling of trees to DFO/Chandel Forest Division. DFO/Chandel Forest Division to submit detailed estimate for the cost of felling of trees.
6	The cost for boundary demarcation of the diversion forest land shall be shall be deposited by the User Agency with the State Forest Department;	The User Agency to deposit the cost for boundary demarcation of the diverted forest land to DFO/Chandel Forest Division. DFO/Chandel Forest Division to submit detailed estimate for boundary demarcation of the diverted forest land.
7	The State Govt shall submit revised CA Scheme after proper assessment of the soil with additional provision for soil amendments, if required, and found acceptable;	The State Govt shall submit revised CA Scheme after proper assessment of the soil with additional provision for soil amendments, if required, and found acceptable;
8	Undertaking from the user agency to undertake special measures for prevention of landslide / erosion by biological or mechanical measures and stabilization of side slope to avoid soil erosion and landslides as per requirement and proposed in the Much Dumping Plan;	The User Agency to submit undertaking to undertake special measures for prevention of landslide / erosion by biological or mechanical measures and stabilization of side slope to avoid soil erosion and landslides as per requirement and proposed in the Much Dumping Plan;
9	The monitoring of the proposed area to be diverted shall be conducted by IRO, Shillong prior to Stage-II approval;	The monitoring of the proposed area to be diverted shall be conducted by IRO, Shillong prior to Stage-II approval;
10	Muck Dumping Plan to be made available to DFOs with instructions to ensure dumping only on dumping sites for each of the respective road widening/improvement and also contractors should be properly sensitized by the User Agency for proper muck dumping;	The User Agency to make available Muck Dumping Plan to the concerned DFO with instructions to ensure dumping only on dumping sites for each of the respective road widening/improvement and also contractors should be properly sensitized by the User Agency for proper muck dumping;
11	Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para I .21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-re dated 28.03.2019•,	The User Agency to submit undertaking that Violation of any of these conditions will amount to violation of Forest (Conservation) Act, 1980 and action would be taken as prescribed in para 1.21 of Chapter 1 of the Handbook of comprehensive guidelines of Forest (Conservation) Act, 1980 as issued by this Ministry's letter No. 5-2/2017-Fc dated 28.03.2019.

12	The KML files of the area to be diverted, the CA areas shall be uploaded on the e-Green watch portal with all requisite details before issuing work permission towards linear projects or submitting compliance report for seeking Stage-II approval, as the case may be;	The DFO/Chandel Forest Division to upload the KML files of the area to be diverted and the CA areas on the e-Green watch portal with all requisite details before issuing work permission towards linear projects or submitting compliance report for seeking Stage-II approval, as the case may be;
13	The compliance report shall be uploaded on e-portal (https://parivesh.nic.in/);	The User Agency to upload the compliance report on e-portal (https://parivesh.nic.in/) after fulfilling the conditions stipulated in the In-Principle Approval letter.

B: Conditions which need to be strictly complied on field after handing over of forest land to the user agency by the State Forest Department but the compliance in form of undertaking shall be submitted prior to Stage-II approval:

Para No	Stipulated Conditions	Mode of compliance
1	Legal status of the diverted forest land shall remain unchanged;	The User Agency to submit undertaking that Legal status of the diverted forest land shall remain unchanged.
2	Compensatory Afforestation shall be raised over equivalent to the area diverted in degraded forest land identified over 22.045 Ha in Compartment No.25 & 27, Reserved Forest Block, Sajik Centre, Chandel Forest Division in Chandel District;	The User Agency to submit undertaking that Compensatory Afforestation shall be raised over equivalent to the area diverted in degraded forest land identified over 22.045 Ha in Compartment No.25 & 27, Reserved Forest Block, Sajik Centre, Chandel Forest Division in Chandel District;
3	The overburden shall not be dumped outside the diverted land. The muck generated in the earth cuttings will be disposed of at the designated dumping sites and in no case the muck/debris will be allowed to roll down the hill slopes;	The User Agency to submit undertaking that the overburden shall not be dumped outside the diverted land. The muck generated in the earth cuttings will be disposed of at the designated dumping sites and in no case the muck/debris will be allowed to roll down the hill slopes;
4	The State Govt shall ensure that the user agency provide proper drainage of retaining / breast wall in steep slopes and stabilization of side slope to avoid soil erosion and landslides and provide for proper drains / cross drains. Physical barriers / structures to prevent muck from entering streams & rivers and other ecologically sensitive areas are to be constructed on the lower slope side, if required, before any construction work are started;	The Divisional Forest Officer, Chandel Forest Division shall ensure that the user agency provide proper drainage of retaining / breast wall in steep slopes and stabilization of side slope to avoid soil erosion and landslides and provide for proper drains / cross drains. Physical barriers / structures to prevent muck from entering streams & rivers and other ecologically sensitive areas are to be constructed on the lower slope side, if required, before any construction work are started;
5	User agency may raise strip plantation on both sides of the road as per the IRC norms as per the fund deposited by the User Agency;	The User Agency to submit undertaking that strip plantation on both sides of the road as per the IRC norms as per the fund deposited by the User Agency;

6	Speed regulating signage will be erected along the road at regular intervals in the Protected Areas/Forest Areas;	The User Agency to submit undertaking that Speed regulating signage will be erected along the road at regular intervals in the Protected Areas/Forest Areas;
7	The user agency shall provide suitable under / over pass in Protected Area / Forest Area as per recommendation of CWLW / NBWL / FAC / REC, if applicable;	The User Agency to submit undertaking for providing suitable under / over pass in Protected Area / Forest Area as per recommendation of CWLW / NBWL / FAC / REC, if applicable;
8	The forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;	The User Agency to submit undertaking that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government;
9	No damage to the flora and fauna of the adjoining area shall be caused;	The User Agency to submit undertaking stating that no damage to the flora and fauna of the adjoining area shall be caused.
10	The concerned Divisional Forest Officer, will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area;	The Divisional Forest Officer, Chandel Forest Division will monitor and take necessary mitigative measures to ensure that there is no adverse impact on the forests in the surrounding area.
11	The user agency shall undertake re-grassing of the muck dumping area and restore the land to a condition which is fit for growth of fodder, flora, fauna etc;	The User Agency to submit undertaking for re-grassing of the muck dumping area and restore the land to a condition which is fit for growth of fodder, flora, fauna etc.
12	The User Agency shall obtain the Environmental Clearance as per the provisions of the Environment (Protection) Act, 1986, if applicable;	The User Agency shall obtain the Environmental Clearance as per the provisions of the Environment (Protection) Act, 1986, if applicable;
13	The layout plan of the proposal shall not be changed without prior approval of Central Government;	The User Agency to submit undertaking stating that the layout plan of the proposal shall not be changed without the prior approval of the Central Government.
14	No labour camp shall be established on the forest land;	The User Agency to submit undertaking that No labour camp shall be established on the forest land;
15	Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;	The User Agency to submit undertaking that Sufficient firewood, preferably the alternate fuel, shall be provided by the User Agency to the labourer after purchasing the same from the State Forest Department or the Forest Development Corporation or any other legal source of alternate fuel;
16	The boundary of the diversion forest land shall be suitably demarcated on ground at the	The User Agency to submit undertaking that the boundary of the diversion forest land shall be suitably demarcated on ground at the

	project cost, as per the direction of the concerned Divisional Forest Officer;	project cost, as per the direction of the concerned Divisional Forest Officer;
17	Wherever possible and technically feasible, User Agency shall undertake afforestation measures along the road within the area diverted under this approval;	The User Agency to submit undertaking that wherever possible and technically feasible, User Agency shall undertake afforestation measures along the road within the area diverted under this approval;
18	No additional or new path will be constructed inside the forest area for transportation of construction materials for execution materials for execution of the project work;	The User Agency to submit undertaking that no additional or new path will be constructed inside the forest area for transportation of construction materials for execution materials for execution of the project work;
19	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;	The period of diversion under this approval shall be co-terminus with the period of lease to be granted in favour of the user agency or the project life, whichever is less;
20	The forest land shall not be used for any purpose other than that specified in the project proposal;	The User Agency to submit undertaking ensuring that the forest land shall not be used for any purpose other than that specified in the project proposal;
21	The forest land proposed to be diverted shall under no circumstances be transferred to any other agencies, department or person without prior approval of Govt. of India;	The User Agency to submit undertaking ensuring that the forest land proposed to be diverted shall under no circumstances be transferred to any other agency, department or person without prior approval of the Central Government.
22	The User Agency shall submit the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year;	The User Agency to submit undertaking ensuring the submission of the annual self-compliance report in respect of the above stated conditions to the State Government, concerned Regional Office and to this Ministry by the end of March every year,
23	The user agency shall comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project;	The User Agency to submit undertaking to comply all the provisions of the all Acts, Rules, Regulations, Guidelines, Hon'ble Court Order (s) and NGT Order (s) pertaining to this project, if any, for the time being in force, as applicable to the project.
24	All other clearance/NOCs under different applicable rules/regulations/local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No. 11-9/1998-FC(pt) dated 03.08.2009 shall be complied with;	The User Agency to submit undertaking that all other clearance/NOCs under different applicable rules/regulations [local laws and under Forest Dwellers (Recognition of Forest Rights) Act, 2006 as required vide MoEF, New Delhi guideline No. 11-9/1998-FC(pt) dated 03.08.2009 shall be complied with.

25	As per Ministry's letter No 11-30/96-FC(Pt) dt 14.9.2001, if the compliance of stipulated conditions is awaited from the State Govt for more than 5(five) years, the In-Principle approval would be summarily be revoked considering that the user agency is no longer interested in the project;	As per Ministry's letter No 11-30/96-FC(Pt) dt 14.9.2001, if the compliance of stipulated conditions is awaited from the State Govt for more than 5(five) years, the In-Principle approval would be summarily be revoked considering that the user agency is no longer interested in the project;
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Prompt compliance to above mentioned conditions is requested so that further necessary action can be taken up.

Enclosed:

1. F.No. 3-MN C 054/2022-SHI/2937-38 dt. 18.01.2023.
2. Compensatory Afforestation Scheme.
3. Calculation of NPV.

Yours faithfully,



(V.L.Roui Kullai)

Addl. Principal Chief Conservator of Forests & Nodal officer/FCA
Government of Manipur


Copy to:

1. The Chief Conservator of Forest, CAMPA, Government of Manipur.
2. The Conservator of Forest/Eastern Circle, Government of Manipur.
3. The Divisional Forest Officer/Chandel Forest Division, with a request to submit detail estimate for the cost of felling, logging and transportation of felled trees and for the cost of raising Avenue Plantation on the road side.

CALCULATION OF NET PRESENT VALUE (NPV)

1.	Name of the Project	Diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL specifications (Phase-2) in the State of Manipur by 84 RCC (GREF).
2.	User Agency	84 RCC (GREF)
3.	Minimum area of Forest Land required for diversion in Tamenglong Forest Division	55.5904 ha
4.	Crown density of the area proposed for diversion	Very Dense Forest: 0 ha (0%) Moderately Dense Forest: 9.427 ha (17 %) Open Forest: 46.163 ha (83 %)
5.	Vegetation Covered	Moderately Dense Forest & Open Forest
6.	Forest Types as per Supreme Court's order date 28/3/2008 in WPC No. 202/1996.	Eco-Class - I
7.	Net Present Value as per Supreme Court's Order dated 28/3/2008 in WPC No. 202/1996.	a) Very Dense Forest: (0 ha x Rs. 15,95,790/ha) = Nil b) Moderately Dense Forest: (9.427 ha x Rs. 14,36,670/ha) = Rs. 13543488.09 c) Open Forest: (46.163 ha x Rs. 11,16,900/ha) = Rs. 51559454.70
	TOTAL:	Rs. 6,51,02,940/-

(Rupees Six Crore Fifty-One Lakhs Two Thousand Nine Hundred and Forty only)


(Kanthale Vijay Sahebrao)
Divisional Forest Officer
Chandel Forest Division
Government of Manipur

RECASTED

Physical and financial targets for Compensatory Afforestation(CA) for diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL specifications (Phase-2) in the State of Manipur by 84 RCC (GREF)

Division : Chandel Forest Division
 Centre: Gelbungjang
 Range: Chakpikarong

Physical Target: 55.59 ha

No. of Plants/ha = 1600
 Total No. of Plants = 88,944
 Spacing : 2.5 m x 2.5 m

SI No.	Items of work	Unit per ha in Rs.	Physical and Financial Targets																											
			Year-I		Year-II		Year-III		Year-IV		Year-V		Year-VI		Year-VII		Year-VIII		Year-IX		Year-X		Year-XI		Year-XII		Total			
			Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.	Phy	Fin.		
	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	24	25		
1	a) Advance work	34,460	55.59	19.16																							55.59	19.156		
	b) Creation	47,400			55.59	26.35																						55.59	26.350	
	c) 1 st Yr. Maint.	19,110					55.59	10.62																				55.59	10.623	
	d) 2 nd Yr. Maint.	14,230							55.59	7.91																		55.59	7.910	
	e) 3 rd Yr. Maint.	10,330									55.59	5.74																55.59	5.742	
	f) 4 th Yr. Maint.	8,000												55.59	4.45														55.59	4.447
	g) 5 th Yr. Maint.	8,000														55.59	4.45												55.59	4.447
	h) 6 th Yr. Maint.	8,000																55.59	4.45										55.59	4.447
	i) 7 th Yr. Maint.	8,000																		55.59	4.45								55.59	4.447
	j) 8 th Yr. Maint.	8,000																				55.59	4.45						55.59	4.447
	k) 9 th Yr. Maint.	8,000																							55.59	4.45			55.59	4.447
l) 10 th Yr. Maint.	8,000																									55.59	4.45	55.59	4.447	
	Sub Total			19.16		26.35		10.62		7.91		5.74		4.45		4.45		4.45		4.45		4.45		4.45		4.45		4.45	100.910	
2	Micro planning	5%	2.8	0.958		1.318		0.531		0.396		0.287		0.222		0.222		0.222		0.222		0.222		0.222		0.222		0.222	5.045	
3	Soil & Moisture	10%	5.6	1.916		2.635		1.062		0.791		0.574		0.445		0.445		0.445		0.445		0.445		0.445		0.445		0.445	10.093	
4	Awareness raising	5%	2.8	0.958		1.318		0.531		0.396		0.287		0.222		0.222		0.222		0.222		0.222		0.222		0.222		0.222	5.044	
5	Fencing	10%	5.6	1.916		2.635		1.062		0.791		0.574		0.445		0.445		0.445		0.445		0.445		0.445		0.445		0.445	10.093	
6	Overheads	10%	5.6	1.916		2.635		1.062		0.791		0.574		0.445		0.445		0.445		0.445		0.445		0.445		0.445		0.445	10.093	
	Sub- Total	40%	22.4	7.664		10.541		4.248		3.165		2.296		1.779		1.779		1.779		1.779		1.779		1.779		1.78		1.779	40.368	
	Grand Total			26.820		36.891		14.87		11.075		8.038		6.226		6.226		6.226		6.226		6.226		6.226		6.226		6.226	141.278	

Unit cost = 141.278/55.59 =Rs. 2.541 Lakh per ha

Coastal
 Divisional Forest Officer
 Chandel Forest Division
 Government of Manipur

(Rupees One Crore Forty-One Lakh Twenty-Seven Thousand and Eight Hundred) only

Rd
 Range Forest Officer
 Chakpikarong Range
 Government of Manipur

Government of Manipur
Office of the Addl. Principal Chief Conservator of Forests
& Nodal Officer: FCA
Imphal : Manipur

No. 7/315/2022/Forests: /59

Imphal, the^{3rd} March, 2023

To

✓ The AE (CIV), 84 RCC/25 BRTF

Subject:- Proposal for diversion of 55.5904 ha of forest land for Widening/
improvement of existing road Chakpikarong -Sajik -Aigejang -Khongtal
(19.5 KM to 41.657 KM) to NHSL Specifications in the State of Manipur
by 84 RCC (GREF).

Sir,

With reference to the subject cited above, I am to forward the detailed estimates for the cost of Felling, Logging and Transportation of project affected trees, Avenue Plantation and Boundary Pillars for diversion of 55.5904 ha of forest land for Widening/ improvement of existing road Chakpikarong -Sajik -Aigejang -Khongtal (19.5 KM to 41.657 KM) to NHSL Specifications in the State of Manipur by 84 RCC (GREF) as given below:-

Sl. No.	Particulars	Amount	Remark
1.	Avenue Plantation	Rs. 4,62,31,640	To be deposited to CAMPA account through e-portal (http://parivesh.nic.in) as mentioned in Para A. 3 of IPA.
2.	Extraction of Trees	Rs.1,32,42,800	To be deposited into account of DFO/Chandel Forest Division A/c No. 3461100002625 Name of Account: DDO Chandel Name of Bank: Punjab & Sind Bank, Thangal Bazar Imphal
3.	Boundary Pillars	Rs. 21,57,840	
	Total	Rs. 6,16,32,280/-	

Enclosed: As stated above.

Yours faithfully,



(V.L. Roui Kullai)

Addl. Principal Chief Conservator of Forests
& Nodal Officer/FCA
Government of Manipur

Copy to:

1. The Conservator of Forests /Western Forest Circle, Government of Manipur.
2. The DFO/ Chandel Forest Division, Government of Manipur.

Government of Manipur
Office of the Divisional Forest Officer
Chandel Forest Division : CHANDEL

No. 17/01/CAMPA(G)/2020-21/CDL/

Dated 3rd March 2023.

To,

The Nodal Officer/ FCA
Forest Head Office, Sanjenthong
Imphal, Manipur.

Sub : Estimates for Avenue Ptn., Construction of Boundary Pillars and
Cost of Felling of trees - submission of.

Ref : Proposal No. 3-MN C 054/2022-SHI/2937-38

Ma'am,

As per Sl. No. 3,5 and 6 of the IPA issued by the Integrated Regional office of the Proposal for 'Diversion of 55.5904 Ha of Forest land for widening and improvement of existing Chakpikarong-Sajik-Aigejang-Khongtal Road (19.5 km to 41.657 km)', three estimates for the above are enclosed herewith as additional documents as detailed below.

Sl. No.	Deetails	Amount	Sl. No in IPA
1	Cost for raising Avenue Plantation	4,62,31,640/-	3
2	Cost of Felling of trees	1,32,42,800/-	5
3	Cost of boundary pillar construction	21,57,840/-	6

Submitted for favour of doing the needful please.

Encl : As above.

Yours faithfully,



(Pritam Kshetri)
Divisional Forest Officer,
Chandel Forest Division,
Chandel.

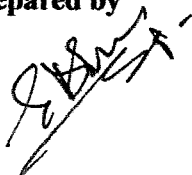
Copy to :
The CO, 84 RCC (GREF)

Estimate of Advance Work & Creation for Avenue Plantation on Road Side for Diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL Specifications (Phase-2) in the State of Manipur by 84 RCC (GREF).

Sl.No.	Particulars	Amount (Rs)
1	Advance Work & Creation for Single Row Avenue Plantation on both sides of road	4,49,62,140
2	Maintenance-I	8,27,000
3	Maintenance-II	4,42,500
	TOTAL COST:	4,62,31,640/-

(Rupees Four Crore Sixty Two Lakh Thirty One Thousand Six Hundred and Forty) Only

Prepared by



Checked by



Range Forest Officer
Chakpikarong Range
Government of Manipur

Approved by



Divisional Forest Officer
Chandel Forest Division
Government of Manipur

Estimate of Advance Work & Creation for Avenue Plantation on Road Side for Diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL Specifications (Phase-2) in the State of Manipur by 84 RCC (GREF).

Name of work: Avenue Plantation on road side

Design: Single row Plantation on both sides of road

Spacing: 4 m from C/C


Length of Plantation (km): 44.314

No. of Plants: 11079

S. No.	Item of work	Quantity	Rate	Unit	Amount	Remark
1	Laying out of 11079 planting pits and staking of the pits at prescribed spacing @220 pits/manday	51	225	Man-day	11475	MFSR'91
2	Digging of 11079 planting pits of size 30cm x 30cm x 30cm @ 1 manday for 60 pits.	185	225	Man-day	41625	MFSR'91
3	Refilling of planting pits with the dug out soil, after proper weathering and breaking of clods @ 180 pits/manday	62	225	Man-day	13950	MFSR'91
4	Planting out of tall seedlings raised in polybags by removing the polybags without disturbing the root system @15 seedlings per manday	739	225	each	166275	MFSR'91 (Field observation)
5	Procurement of indigenous tall saplings (not less than 3 feet height) including transportation.	11079	300	each	3323700	Local Market Rate
7	Supply at site well-decayed Farm Yard Manure for mixing with soil in the ratio of 1:1, including screening and stacking (1/2 of 0.216 cum of one pit x 250 pits).	1053	1087	cum	1144611	MSR 2022/p-49
8	P/F MS flat iron tree guard 60 cm dia and 2 m high above ground level formed with 4 nos. (25x6 mm) and 8 nos (25x3 mm) vertical MS riveted to 3 nos.(25x6mm) iron rings in two halves, including painting two coats with paint of approved brand over a coat of priming, complete in all respects.	11079	3623	Each	40139217	MSR 2022/p-50
9	Deployment of 1 watcher and ward for 6 months after plantation including protection from fire hazard, watering etc.	180	225	Man day	40500	MFSR'91
Subtotal:					44881353	
Add Contingency (less than 3%):					80787	
Grand Total(Rs):					₹ 4,49,62,140	

(Rupees Four Crore Forty Nine Lakh Sixty Two Thousand One Hundred and Forty) Only

Prepared by



Checked by



Range Forest Officer
Chakpikarong Range
Government of Manipur

Approved by



Divisional Forest Officer
Chandul Forest Division
Government of Manipur

Maintenance - I for Avenue Plantation

Sl. No.	Item of work	Quantity	Rate	Unit	Amount	Remark
1	First weeding operation to a width of 0.5m radius around each plant of 11079 nos. including hoeing @ 125 plants per man day	89	225	Man-day	20025	MFSR'91
2	Procurement of tree saplings (20%) casualty replacement.	2216	300	each	664800	MFSR'91
3	Beating up of casualties upto 20% @ 15 saplings/mday.	148	225	Man day	33300	MFSR'91
4	Second weeding operation to a width of 0.5m radius around each plant of 11079 nos. including hoeing @ 250 plants per man day.	45	225	Man-day	10125	MFSR'91
5	Deployment of 1 watcher per km and ward for 365 mdys including protection from fire hazard, watering etc.	365	225	Man-day	82125	MFSR'91
Sub total:					810375	
Add Contingency:					16625	
Grand Total:					₹ 8,27,000	

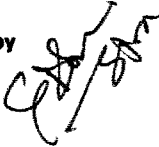
(Rupees Eight Lakh Twenty Seven Thousand Three Hundred) Only

Maintenance - II for Avenue Plantation

S. No.	Item of work	Quantity	Rate	Unit	Amount	Remark
1	Weeding operation to a width of 0.5m radius around each plant including hoeing @ 250 plants per man day	45	225	Man day	10125	MFSR'91
2	Purchase of seedlings for beating up (10%)	1108	300	each	332400	MFSR'91
3	Beating up of casualties upto 10% @ 15 saplings/man day	74	225	Man day	16650	MFSR'91
4	Deployment of 1 nos. of watch and ward for 365 mdys including protection from fire hazard, watering etc	365	225	Man day	82125	
Subtotal:					441300	
Add Contingency:					1200	
Grand Total:					₹ 4,42,500	

(Rupees Four Lakh Forty Two Thousand and Five Hundred) Only

Prepared by




Checked by



Range Forest Officer
Chakpikarong Range
Government of Manipur

Approved by



Divisional Forest Officer
Chandel Forest Division
Government of Manipur

Construction of 444 nos RCC survey pillars for demarcation of diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL specifications (Phase-2) in the State of Manipur by 84 RCC (GREF) (Average distance from pillar to the other = 100m in both sides of road)

Sl. No.	Item of works	Quantity	Unit	Rate (Rs.)	Amount (Rs.)	Remarks
1	Earthwork in excavation in foundation trenches or drains including dressing of sides and ramming of bottom lift upto 1.5 m including getting out the excavated soil and disposal of surplus excavated soil as directed in Hard/ Dense soil.	0.072	cum	260.05	18.72	Sl.2.8.1/p-45 MSR-2022
2	Filling available excavated earth (excluding rock) in trenches, plinth sides of foundation etc. in layers not exceeding 20 cm in depth, consolidating each deposited layer by ramming and watering lead upto 50 metres lift upto 1.5 metre.	0.024	cum	171.67	4.12	Sl.2.23/p-47 MSR-2022
3	a. Steel Reinforcement for RCC work i/c binding & Placing in position complete 10 mm @ 0.62 kg/Rm.(Medium Tensile Steel bars)					Sl.no.5.20.1/p-57 MSR-2022
	b. Steel Reinforcement for RCC work i/c binding & Placing in position complete 6 mm @ 0.22 kg/Rm.(Mild steel)					
	Sub total	6.68	kg	88.99	594.45	
4	Providing form works for centering and shuttering i/c strutting, propping etc. and removal of form for columns, pillars, post and struts etc.	2.1	sqm	777.92	1633.63	Sl.no.5.9.6/p-55 MSR-2022
5	Reinforced cement concrete work in column, pillars, piers, abutments, posts & struts up to floor two level excluding the cost of centering, shuttering, finishing and reinforcement in 1:1.5:3 (1 cement: 1.5 coarse sand: 3graded stone aggregate 20 mm nominal size)	0.09	cum	11056.59	995.09	Sl.no.5.2.1/p-54 MSR-2022
6	Finishing with 12 mm cement plaster 1:3 (1 cement : 3 fine sand) on rough surface.	1	sqm	325.72	325.72	Sl.no.13.7.1/p-99 MSR-2022
7	Applying one coat cement primer of approved quality on wall/ over rough surface.	1	sqm	51.22	51.22	Sl.no.13.31.1/p-101 MSR-2022
8	Finishing the sides with waterproof cement paint of approved quality on new work (three or more coat applied @ 3.84 kg/10 sqm) to give an even shade.	1	sqm	81.01	81.01	Sl.no.13.32.1/p-101 MSR-2022
9	Lettering with black Japan paint (3 cm height letter for GPS Reading and Fore-bearing and Back-bearing about 30 letter)	30	cm ht	3.54	106.20	Sl.no.13.32.1/p-103 MSR-2022
10	Transportation of stone chip and sand to last motorable point for an average road distance of 20 Km.(0+39.5 Km)/2	0.1025	cum	695.33	71.27	p-38 MSR-2022
11	Transportation of cement to last motorable point for an average road distance of 20 Km.(0+39.5 Km)/2	0.036	MT	618.27	22.26	p-38 MSR-2022
12	Transportation of the construction materials in the site of erection from the motorable road by head load	1	mdy	225	225.00	Minimum wage rate

4128.70

Deduct Contractor profit (7.5%)

(-)

309.65

3819.05

Add 12% GST:

(+)

495.44

Add 1% Labour Cess:

(+)

41.29

4355.78

Add Contingency (not exceeding 3%):

(+)

504.22

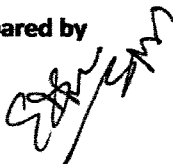
4860.00

Estimated cost for 444 boundary demarcation pillars:

₹ 21,57,840.00

(Rupees Twenty One Lakh Fifty Seven Thousand Eight Hundred and Forty) only

Prepared by



Checked by



Range Forest Officer
Chakpikarong Range
Government of Manipur

Approved by



Divisional Forest Officer
Chandel Forest Division
Government of Manipur

Estimate for Departmental Extraction/Felling of Trees for Diversion of 55.5904 ha of Forest land for Widening/Improvement of existing road Chakpikarong – Sajik – Aigejang – Khongtal (19.5 km to 41.657 km) to NHSL specifications (Phase-2) in the State of Manipur by 84 RCC (GREF).

Division: Chandel Forest Division
Range: Chakpikarong

Area of Forest Land Diverted (ha): 55.5904
No. of trees affected (say): 47,018
Volume of Timber affected (cum): 11.11
Volume of Firewood affected(cum): 8587.83

S.N.	Items of Work	Unit	Qty	Rate	Amount (Rs)	Remarks
A. TIMBER:						
1	Marking of trees to be affected @50 trees per Mday	Mday	940	225	211500	Field Observation
2	Felling of marked trees, delimiting & conversion into logs at the stump site @ 10 manday/cum	mday	111	225	24975	MFSR '91
3	Off road/ minor transportation of logs from felling site to temporary depot/motorable point including loading and unloading @ 20 mdy/cum	mday	223	225	50175	MFSR '91
Total (Timber):					₹ 75,150.00	
B. FIREWOOD:						
1	Felling of trees of firewood and conversion of felled trees into billets of size 12 cm dia (minimum) including splitting and stacking to the size 3 m x 1.5m x 1m (4.5 cum) at stump site @ 25 mandays per stake for 8587.83 cum of firewood (8587.83/4.5 = 1908 stakes).	mday	47700	225	10732500	MFSR '91
2	Transportation of billets from stump site and dumping at the temporary depot (motorable point) and stacking including loading and unloading @ 5 manday per stake for 1908 stakes.	mday	9540	225	2146500	MFSR '91
Total (Firewood):					1,28,79,000.00	

Sub-Total: 1,29,54,150.00
General Contingency: 288650
Grand Total: ₹ 1,32,42,800.00

(Rupees One Crore Thirty Two Lakh Forty Two Thousand and Eight Hundred) Only

Prepared by

Checked by

Range Forest Officer
Chakpikarong Range
Government of Manipur

Approved by

Divisional Forest Officer
Chandel Forest Division
Government of Manipur